

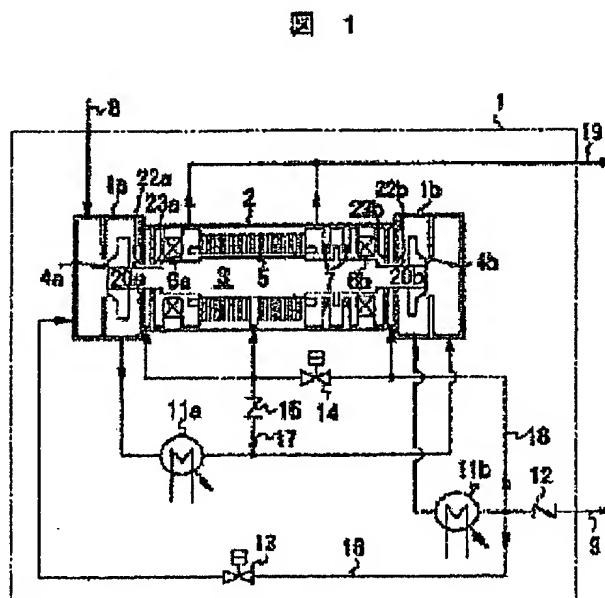
CENTRIFUGAL COMPRESSOR WITH MAGNETIC BEARING

Patent number: JP2001123997
Publication date: 2001-05-08
Inventor: TAKAHASHI KAZUKI; MIURA HARUO; NISHIDA HIDEO; TAKAHASHI NAOHIKO; FUKUSHIMA YASUO
Applicant: HITACHI LTD
Classification:
 - International: **F04D29/58; F04D29/58; (IPC1-7): F04D29/58**
 - european:
Application numbers: JP19990299174 19991021
Priority number(s): JP19990299174 19991021

Report a data error here

Abstract of JP2001123997

PROBLEM TO BE SOLVED: To reduce the consumption of cooling air and to improve economics by preventing high-temperature gas from leaking from an impeller to a magnetic bearing, in a centrifugal compressor mounted with a magnetic bearing. **SOLUTION:** Compressed gas downstream of an inter-cooler 11a is introduced to a magnetic bearing 6a of a first stage impeller side, and compressed gas downstream of an after-cooler 11b is introduced to a magnetic bearing 6b on a second stage impeller side. Therefore, high-temperature gas is prevented from leaking from impellers 4a, 4b to the magnetic bearings 6a, 6b, the consumption of cooling air is reduced, and the economics is improved.



Data supplied from the esp@cenet database - Worldwide